PROJECT DESCRIPTION

<u>GENERAL</u>

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 410 (RIVERDALE ROAD) AND MD 295 (BALTIMORE-WASHINGTON PARKWAY - WEST RAMP) IN PRINCE GEORGE'S COUNTY. THE MODIFICATION INCLUDES THE INSTALLATION OF ACCESSIBLE PUSHBUTTONS AND COUNTDOWN LED PEDESTRIAN SIGNALS, NEW LED VEHICULAR TRAFFIC SIGNALS AND VIDEO DETECTION.

MD 410 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR PHASE, FULLY-ACTUATED TRAFFIC MODE. THE EXISTING WESTBOUND EXCLUSIVE/PERMISSIVE LEFT TURN, MAINLINE AND SIDE STREET ALTERNATE PEDESTRIAN PHASES WILL REMAIN. THE EAST AND SOUTH LEG PEDESTRIAN PHASES WILL BE REMOVED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT AND ONE (I) VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

FOR RIVERDALE ROAD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE 'WAIT TO CROSS RIVERDALE AT B/W PARKWAY RAMP."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE 'WALK" PHASE.

FOR RAMP

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engineers /architects /planners /construction managers 25 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS B/W PARKWAY RAMP AT RIVERDALE."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

ERSONS FOR DISTRIC	Г #3	/	00TS/	ARE AS	FOLLOWS:	
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THE CONTACT PE

District #3 Mr. Brian Young Assistant District Engineer - Traffic Phone: 301-513-7404

Mr. Augie Rebish District Utility Engineer Phone: 301-513-7350 Mr. Vernon Stinnett, Jr. Assistant District Engineer - Maintenance Phone: 301-513-7304

Mr. Kevin Nowak Assistant District Engineer - Construction Phone: 301-513-7336

Office Of Traffic & Safety

Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

Mr. Robert Snyder Assistant Division Chief, Traffic Operations

Mr. Edward Rodenhizer Team Leader Signal Operations Phone: 410-787-7650

Mr. Eugene Bailey Team Leader Sign Operations 410-787-7670

The Power Company Representative is: Potomac Electric Power Company 8300 Old Marlboro Pike Upper Marlboro, Maryland 20772 Phone: 301-961-5325

EQUIPMENT LIST 'A'

FOLIPMENT TO BE FURNISHED BY THE SHA

EQUIPMENT	TO BE FURNIS	SHED BY THE SHA.
CATEGORY CODE	QUANTITY	DESCRIPTION
900000	I EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
973023	140 SF	SHEET ALUMINUM SIGNS:
		8 EA - M6-2 (21 IN. x 15 IN.) F.Y.G.
		8 EA - SI-I (36 IN. x 36 IN.)
		EA - D-3() (96 IN. x 16 IN.) "RIVERDALE RD"
		IEA - SHIELD ASSEMBLY (30 IN. × 51 IN.) "WEST, MD 410, RIGHT ARROW"
		IEA - SHIELD ASSEMBLY (48 IN. x 75 IN.) "EAST, MD 410, LEFT ARROW"
		2 EA - RIO-3(I)(9 IN. × 15 IN.) "PUSH BUTTON TO CROSS RIVERDALE ROAD"

2 EA - RIO-3(I) (9 IN. x I5 IN.)

'PUSH BUTTON TO CROSS RAMP'

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	
	R Y G	RYG	R V V G	R Y-Y GGG	R Y G	RYG	RYG					
PHASE 2 AND 5	R	R	+G∕G	+G∕G	G	R	R	wĸ	DW	DW	wĸ	oo
PHASE 5 CHANGE	R	R	+Y⁄G	+Y∕G	G	R	R	WK	DW	DW	WK	- V
PHASE 2 & 6	G	G	G	G	G	R	R	W/K	W/K	D/W	D/W	00
PED CLEARANCE COUNTDOWN	G	G	G	G	G	R	R	FL/DW	FL/DW	DW	DW	7 _
PHASE 2 AND 6 CHANGE	Υ	Υ	Υ	Υ	Υ	R	R	DW	DW	DW	DW	>
PHASE 4	R	R	R	R	R	G	G	DW	DW	DW	DW	1
PHASE 4 CHANGE	R	R	R	R	R	Υ	Υ	DW	DW	DW	DW	- - -
PHASE 4 ALT.	R	R	R	R	R	G	G	DW	DW	WK	WK	۱ ۲
PED CLEARANCE COUNTDOWN	R	R	R	R	R	G	G	DW	DW	FL⁄DW	FL⁄DW	
PHASE 4 ALT. CHANGE	R	R	R	R	R	Υ	Υ	DW	DW	DW	DW	H ∳
FLASHING	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	\

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

DESCRIPTION

QUANTITY

CODE		
120500	I LS	MAINTENANCE OF TRAFFIC
203030	2 CY	TEST PIT EXCAVATION
585621	675 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585625	130 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
800000	I EA	2 WIRE CENTRAL CONTROL UNIT
800000	3 EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000	4 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
800000	I LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
801004	4 CY	CONCRETE FOR SIGNAL FOUNDATION
801108	90 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
802501	200 LF	NO.6 AWG STRANDED BARE COPPER GROUND WIRE
805115	275 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805118	90 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805135	105 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
810605	4 EA	NON INVASIVE DETECTOR, 1000 FOOT LEAD-IN CABLE
811001	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
811002	2 EA	REMOVE ELECTRICAL HANDHOLE
813014	90 SF	INSTALL GROUND MOUNTED SIGN
813015	50 SF	INSTALL OVERHEAD SIGN
813022	IO SF	REMOVE EXISTING GROUND MOUNTED SIGNS
816001	4 EA	VIDEO DETECTION (TERRA) CAMERA
818004	4 EA	10 FOOT BREAKAWAY PEDESTAL POLE
837001	2 EA	GROUND ROD - 3/4 INCH DIAMETER × 10 FOOT LENGTH
860284	22 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	I EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	660 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
861107	685 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

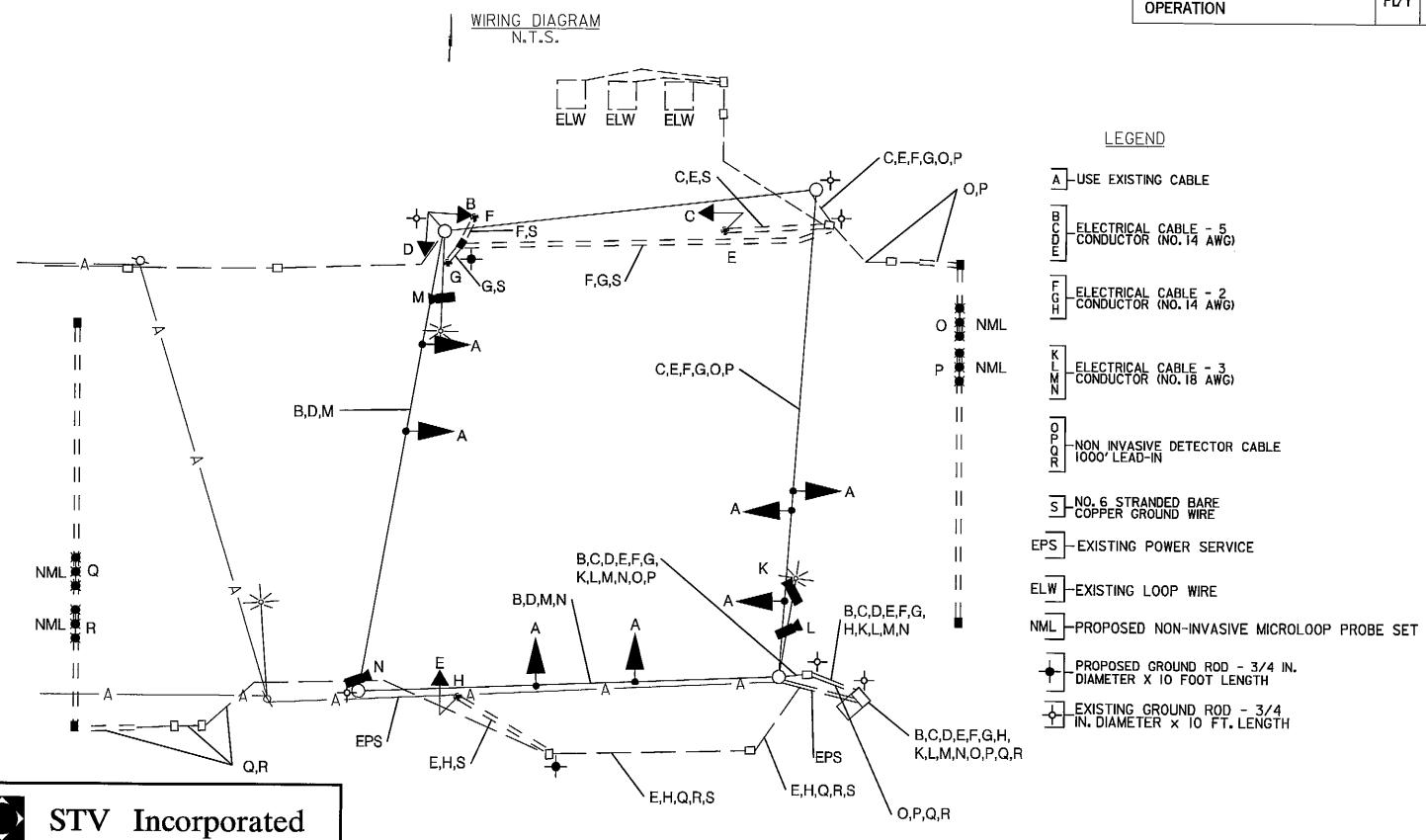
EQUIPMENT LIST 'C'

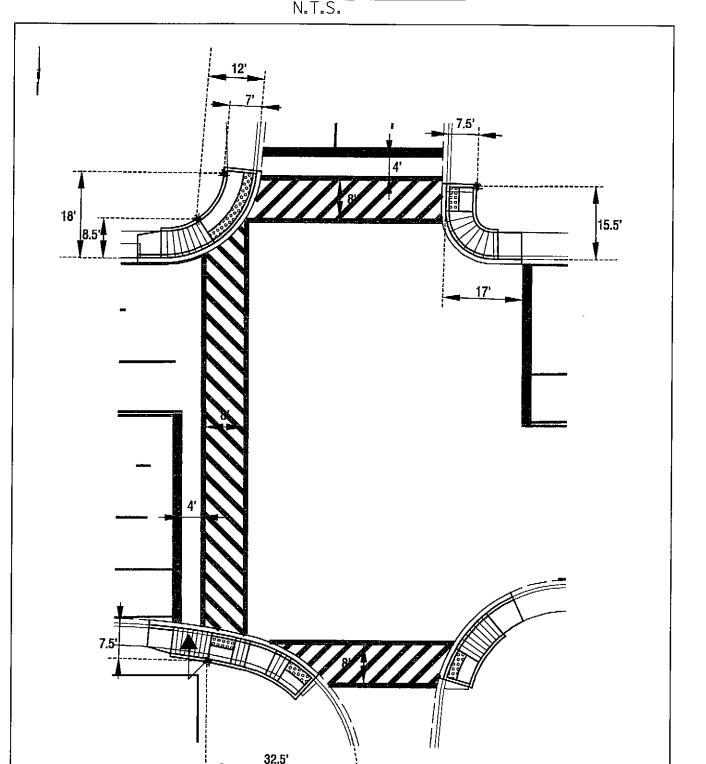
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

<u>QUANTITY</u> **DESCRIPTION**

THE PROPERTY OF THE CONTRACTOR.

NONE - ALL REMOVED EQUIPMENT SHALL BECOME





STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION MD 410 (RIVERDALE ROAD) AT

MD 295 (BALTIMORE-WASHINGTON PARKWAY - WEST RAMP)

GENERAL INFORMATION

DESIGNED BY	MCG	COUNTY	PRINCE GEORGE'S
DRAWN BY	MCG	LOGMILE	16041005.02
CHECKED BY	MTS	TIMS NO	J-771
F.A.P. NO		TOD NO.	

PLOTTED: Tuesday, April 21, 2009 AT 11:24 AM FILE: I:\PROJECTS\0312121\0312121_0032\Drawings\TRA\4311_MD 410 From MD 201 to 67th Place\pSG=N004_MD410at295WestRamp.dgn